

Title (en)
Gate valve and substrate processing system using same

Title (de)
Schieberventil und Substratverarbeitungssystem damit

Title (fr)
Robinet-valve et système de traitement de substrat l'utilisant

Publication
EP 2282086 A2 20110209 (EN)

Application
EP 10171850 A 20100804

Priority
• JP 2009181613 A 20090804
• JP 2010102376 A 20100427

Abstract (en)
A gate valve includes a valve body (62) to be pressed against a peripheral surface (64) around opening through which a processing target object is loaded and unloaded, pressed members arranged on a surface of the valve body around the opening, a main slider (66) which slides in a direction parallel to the peripheral surface around the opening and pressing mechanisms, provided at the main slider (66), for pressing the respective pressed members. Each of the pressing mechanisms includes a cam having a protrusion for pressing the valve body against the peripheral surface around the opening and an inclined portion sloping downward from the protrusion. The pressing mechanisms serve to press the valve body (62) in a direction substantially perpendicular to the peripheral surface around the opening in a state that the valve body is positioned to face the opening, so that the valve body is pressed against the peripheral surface (64) around the opening.

IPC 8 full level
F16K 3/18 (2006.01); **F16K 51/02** (2006.01)

CPC (source: EP US)
F16K 3/186 (2013.01 - EP US); **F16K 51/02** (2013.01 - EP US)

Citation (applicant)
JP H05196150 A 19930806 - TEL YAMANISHI KK

Cited by
CN102157574A; EP3239567A1; WO2017186757A1

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO SE SI SK SM TR

Designated extension state (EPC)
BA ME RS

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